

**Print Form**

PTO/SB/81 (11-08)

Approved for use through 11/30/2011. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS</b>	
Application Number	10/699,421
Filing Date	10/20/2003
First Named Inventor	Steven S. Larsen
Title	Endodontic Instrument
Art Unit	3732
Examiner Name	Lewis, Ralph A.
Attorney Docket Number	LAR50-001

I hereby revoke all previous powers of attorney given in the above-identified application.

A Power of Attorney is submitted herewith.

**OR**

I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

OR

I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number.

**OR**

The address associated with Customer Number:

**OR**

Firm or Individual Name

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ Email \_\_\_\_\_

I am the:

Applicant/Inventor.

**OR**

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on \_\_\_\_\_.

**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	04/03/2012
Name	Steven S. Larsen	Telephone	
Title and Company			

**NOTE:** Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

\*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT APPLICATION

Docket No. LAR50-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
                            )  
                            )  
                            Steven S. Larsen     )  
                            )  
Application No.:       10/690,421         ) Art Unit  
                            )                      3732  
Confirmation No.:      3835                  )  
                            )  
Filed:                  10/20/2003         )  
                            )  
For:                     Endodontic instrument     )  
                            )  
Examiner:              Lewis, Ralph A.         )

**PETITION TO REVIVE ABANDONED APPLICATION**  
**UNDER 37 C.F.R. §1.137(b)**

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attn: Office of Petitions

Sir/Madam:

**Statement of unintentional failure to file a continuation in part application.**

This application was filed on October 20, 2003, and after prosecution and appeal, became abandoned on November 17, 2011. Applicant now respectfully requests revival of the application in order to file a continuation-in-part application, which is submitted herewith as Exhibit A, concurrent with filing (Application No. 13/444,367; Confirmation No. 4938), and along with corresponding fees.

By way of background, this is Applicant's first patent application. The underlying product is the foundation of a family business involving Applicant's children and they depend on it for their support. Applicant has acted diligently throughout, but has relied on former patent counsel for information regarding status and strategy.

Applicant has not been accurately informed of either status or strategy from former counsel. For example, Applicant did not know that former counsel obtained lengthy extension periods and passed on the accompanying fees. Applicant did not timely know of options relating to a request for continued examination (RCE) or continuation applications prior to abandonment.

On April 2, 2012, Applicant hired undersigned counsel to review the application. Applicant became informed that the application was abandoned. Applicant did not intend that the application become abandoned. The abandonment was unintentional.

Applicant has expended time and resources towards preparation of an expedited continuation-in-part (CIP) application, which he now wishes to file. The CIP is prepared with the intent of overcoming all former objections and rejections by the examiner and appeals board, and to correct what Applicant perceives as deficiencies in the original application occasioned by former counsel.

A declaration from the Applicant on this subject is included herewith. From November 17, 2011 to April 2, 2012, the abandonment was unintentional because Applicant was not aware of either status or options. From April 2, 2012 to the time of this filing, undersigned counsel has actively worked with Applicant to review the file and draft this petition and the reply. The entire delay in filing this required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 CFR 1.137(b) was unintentional.

On behalf of Applicant, the undersigned respectfully and sincerely requests that the application be revived to allow for the filing and examination of the CIP.

Dated this 10<sup>th</sup> day of April, 2012.

Respectfully submitted,

/Preston P. Frischknecht/  
Preston P. Frischknecht  
Attorney for Applicant  
Registration No. 61,312  
Customer No.: 062733  
Telephone No. 435-787-9700

PATENT APPLICATION

Docket No. LAR50-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
                            )  
                            )  
                            )  
                            )  
Application No.:       10/690,421                      ) Art Unit  
                            )                              )  
                            )                              3732  
Confirmation No.:       3835                              )  
                            )  
Filed:                   10/20/2003                      )  
                            )  
For:                     Endodontic instrument            )  
                            )  
Examiner:               Lewis, Ralph A.                )

DECLARATION OF APPLICANT STEVE LARSEN IN SUPPORT OF  
PETITION TO REVIVE ABANDONED APPLICATION  
UNDER 37 C.F.R. §1.137(b)

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attn: Office of Petitions

Sir/Madam:

I hereby make the following declaration, under penalty of perjury, and under applicable state and federal law:

1.     In 2003 I hired patent counsel to assist with this patent application.
2.     This application is my first, and I do not otherwise have any experience prosecuting patent applications.

3. This patent application is important to me because the underlying product is part of a family business in which I involve my children and upon which they depend for support.

4. Throughout the prosecution and appeal of this patent application, I have acted diligently and relied on my counsel to inform me as to status and all of my options for pursuing a patent.

5. But, I have not been accurately informed of the status of the application and all of my options for pursuing it.

6. On April 2, 2012 I hired new counsel to examine my file and inform me as to the status of the matter.

7. I am informed that former counsel obtained numerous, lengthy extensions during prosecution of this application, of which I was unaware, and for which I paid.

8. Significantly, I was not timely made aware of all of the options for pursuing the patent application or the underlying technology, including through a request for continued examination (RCE) or continuation-type applications.

9. From new counsel, I understand that my application is now termed "abandoned" by the USPTO as of November 17, 2011.

10. I did not intend to abandon my patent application at that time and to date.

11. Any abandonment of my patent application was unintentional.

12. Better understanding the current status, I now desire to file a continuation-in-part (CIP) application to address and overcome all former objections and rejections by the examiner and appeals board, and what I perceive as deficiencies in the original application.

13. Under these circumstances, I respectfully request that you allow me to "revive" my patent application to file the CIP, which I understand will be submitted with this request.

EXECUTED this 3rd day of April, 2012.



\_\_\_\_\_  
Steven S. Larsen

Steven S. Larsen, Applicant

# Exhibit A

<b>Electronic Acknowledgement Receipt</b>	
<b>EFS ID:</b>	12519182
<b>Application Number:</b>	13444367
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4938
<b>Title of Invention:</b>	Endodontic Instrument
<b>First Named Inventor/Applicant Name:</b>	Steven S. Larsen
<b>Customer Number:</b>	62733
<b>Filler:</b>	Preston Paul Frischknecht/Heidi Dryden
<b>Filler Authorized By:</b>	Preston Paul Frischknecht
<b>Attorney Docket Number:</b>	LAR50-001
<b>Receipt Date:</b>	11-APR-2012
<b>Filing Date:</b>	
<b>Time Stamp:</b>	15:56:55
<b>Application Type:</b>	Utility under 35 USC 111(a)

#### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$620
RAM confirmation Number	2647
Deposit Account	
Authorized User	

#### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Application Data Sheet	1ADS.pdf	1023112 1448796382c9e574d9fe241b0baa060db99 1b63d	no	4
<b>Warnings:</b>					
<b>Information:</b>					
2	Specification	2Spec.pdf	98390 74bc5ceec77ba046fc07d5dd2ebab7f8b 762df	no	7
<b>Warnings:</b>					
<b>Information:</b>					
3	Claims	3Claims.pdf	89644 0af70d4ae2165c5b7342476892543bab345 fb8ac	no	5
<b>Warnings:</b>					
<b>Information:</b>					
4	Abstract	4Abstract.pdf	76197 d2006286d77afdded8d7fed680860d67ceeb 4a5ca	no	1
<b>Warnings:</b>					
<b>Information:</b>					
5	Oath or Declaration filed	6SgndODCIP.pdf	174608 8bfed6efc16afba6f4ef5ab7be0e36758900f 4cb	no	4
<b>Warnings:</b>					
<b>Information:</b>					
6	Power of Attorney	7SgndPOACIP.pdf	97617 1696a324ebf4d0d9248804cd67f3dd5cae 753b3	no	2
<b>Warnings:</b>					
<b>Information:</b>					
7	Drawings-only black and white line drawings	5Fig1-5.pdf	61173 cd6b94ba72d59cb72d8a0170a0d419b504 52b93c	no	4
<b>Warnings:</b>					
<b>Information:</b>					
8	Fee Worksheet (SB06)	fee-info.pdf	36007 aa0a697d8a18313905217754ca8bc1b5138 baa97	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				1656748	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	LAR50-001
		Application Number	
Title of Invention	Endodontic Instrument		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

## Secrecy Order 37 CFR 5.2

<input type="checkbox"/> Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
--

## Applicant Information:

<b>Applicant 1</b>				
<b>Applicant Authority</b> <input checked="" type="radio"/> Inventor <input type="radio"/> Legal Representative under 35 U.S.C. 117 <input type="radio"/> Party of Interest under 35 U.S.C. 118				
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>
Dr.	Steven		Larsen	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
<b>City</b>	North Logan	<b>State/Province</b>	UT	<b>Country of Residence</b>
US				
<b>Citizenship under 37 CFR 1.41(b)</b> US				
<b>Mailing Address of Applicant:</b>				
<b>Address 1</b>	150 East 200 North, Ste. G			
<b>Address 2</b>	Professional Plaza			
<b>City</b>	Logan	<b>State/Province</b>	UT	
<b>Postal Code</b>	84321	<b>Country</b>	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button.				
<b>Add</b>				

## Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.	
<b>Customer Number</b>	62733
<b>Email Address</b>	<input type="button" value="Add Email"/> <input type="button" value="Remove Email"/>

## Application Information:

<b>Title of the Invention</b>	Endodontic Instrument		
<b>Attorney Docket Number</b>	LAR50-001	<b>Small Entity Status Claimed</b>	<input checked="" type="checkbox"/>
<b>Application Type</b>	Nonprovisional		
<b>Subject Matter</b>	Utility		
<b>Suggested Class (if any)</b>			<b>Sub Class (if any)</b>
<b>Suggested Technology Center (if any)</b>			
<b>Total Number of Drawing Sheets (if any)</b>	4	<b>Suggested Figure for Publication (if any)</b>	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number LAR50-001
		Application Number
Title of Invention Endodontic Instrument		

**Publication Information:** Request Early Publication (Fee required at time of Request 37 CFR 1.219)**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S. C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.**Representative Information:**

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	62733		

**Domestic Benefit/National Stage Information:**

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Abandoned	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation in part of	10690421	2003-10-20

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

**Foreign Priority Information:**

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

<input type="button" value="Remove"/>			
Application Number	Country <sup>1</sup>	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			<input checked="" type="radio"/> Yes <input type="radio"/> No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

**Assignee Information:**

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1
------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number LAR50-001
		Application Number
Title of Invention Endodontic Instrument		

If the Assignee is an Organization check here. 

Prefix	Given Name	Middle Name	Family Name	Suffix

**Mailing Address Information:**

Address 1			
Address 2			
City	State/Province		
Country	Postal Code		
Phone Number	Fax Number		
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.**Signature:**

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

<b>Signature</b>	/Preston P. Frischknecht/		Date (YYYY-MM-DD)	2012-11-04	
First Name	Preston	Last Name	Frischknecht	Registration Number	61312

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Docket No. LAR50-001

**UNITED STATES PATENT APPLICATION  
of  
STEVEN S. LARSEN  
A Citizen of the United States  
1411 East 2100 North  
NORTH LOGAN, UTAH 84341  
for an  
ENDODONTIC INSTRUMENT**

Docket No. LAR50-001

**TITLE**

Endodontic Instrument

**CROSS-REFERENCE TO RELATED APPLICATIONS**

5 [0001] This application is a continuation in part of, and claims priority to, U.S. Application No. 10/690,421, Publication No. US 2005-0084818 A1.

**TECHNICAL FIELD OF THE INVENTION**

[0002] This invention relates to endodontic tools, especially a holder for an endodontic file.

10 **BACKGROUND OF THE INVENTION**

[0003] In order to preserve a tooth that has diseased pulp material therein, it is necessary to prevent bacterial proliferation within the pulp canal of the tooth by removing the diseased or necrotic pulp material from the pulp cavity or root canal. After pulp material has been removed or extirpated from a tooth, the pulp cavity or root canal is typically filled or obturated with an inert material in order to prevent future infection of the tooth root. This procedure is referred to as root canal therapy.

[0004] During root canal therapy, it is essential that the entire root canal be cleaned and filled to eliminate all organic matter contained within the root canal. The typical method for root canal therapy is to open the tooth to the pulp chamber and then find each canal orifice opening and work a small endodontic file down to the root end of the tooth. This small file is worked up and down the canal to create a smooth path, clear pulp tissue debris, and start the canal preparation. This initial root preparation is critical to the success of the treatment. This initial preparation of the canal serves as a "glide path" or "pilot hole" for all the other manual or mechanical instruments with files or bits to enlarge this initial preparation of the root canal to a finish prepared shape.

[0005] The root canal system of a human tooth is often narrow, curved, and calcified. It can be extremely difficult to negotiate or clean. Posterior teeth, molars, and premolars can be even more difficult to treat because of the limited room or space in which to operate. The mechanical manipulation the endodontic files in cleaning out the canals in this small limited space can become tedious in preparing the proper "glide path" preparation.

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[0006] Conventional dental instruments used during root canal therapy—such as various endodontic file instruments—generally include a thin, flexible, metal shaft or file with an abrasive surface or sharp edges, which enables efficient cleaning of the root canal. A small, elongated plastic grip handle or hub end is attached at one end of the file instrument and is conventionally adapted for gripping by the dentist with the thumb and index finger in a “two-finger” grip.

5 [0007] The small, elongated plastic grip of these files mostly have a common dimensional hour glass shape. Most dental manufactures have maintained the uniformity of these grips which are standard in clinical endodontic instruments.

10 [0008] The “two-finger” grip is mostly unique in dentistry for holding the endodontic file instrument. Almost all other working operative instruments in dentistry are held by a long handle in a full hand pencil grip or “pen-grasp-grip.” For example the dental mirror, dental explorer, scaler, periodontal probe, material placing instrument, and others all have long handles which the dentist uses in the “pen-grasp-grip” or pencil grip.

15 [0009] Of additional interest is the fact that all of these dental tools mentioned have built into their design a “dental angle”. This “dental angle” allows better access and visibility to the tooth surfaces being examined, when cavities are filled, or teeth are being cleaned. For example: the dental mirror is angled for better access to see the various surfaces of the teeth, especially the posterior teeth. The dental explorer, scaler, periodontal probe, and material placing instrument all 20 use the “dental angle” for the same reason, better access and better visibility in operating the instrument.

[0010] On the other hand, the conventional “two-finger” grip on the small handle of an endodontic file does not lend itself to having a built-in “dental angle.” The file is held by the dentist in a vertical straight line position to operate. With the files measuring 25 to 35 25 millimeters in length, the placement of these files into the canal and the working of these files with the conventional “two-finger” grip can be tedious and time consuming. Accessing molar and premolar teeth can be difficult most cases.

[0011] Visibility to see the canal orifice so as to place the file is also very difficult when holding the file in the conventional file grip. The dentist’s fingers holding the file, obstruct the 30 view into the pulp chamber and the small orifice of the canal into which the file is to be placed.

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[0012] The problems with the conventional manner of gripping an endodontic file in root canal therapy, especially in molars and premolars are numerous. With the limited space to do the root canal procedure, the "two-finger" endodontic file grip hinders the visibility to find the canals. The dentist's fingers holding the file obstruct the field of view to the canals. It is difficult 5 access and treat these cases with the conventional grip on the file.

[0013] Molar and premolar teeth usually require multiple filing motions even a hundred or more cycles of motion in preparing the initial "glide path." The filing manipulation in molar and premolar teeth can be very tedious and tiring to the dentist and the patient. The dentist fingers have to be positioned over the tooth to work the file in the canal. Many times in treating 10 molars and premolar it requires the patient to stretch open as wide as possible for quite some time.

[0014] Accordingly, there is a need for an improved endodontic device that overcomes or avoids the above problems, among many others. Holding the standard endodontic file in a pen-grasp-grip or pencil grip gives the dentist secure control of the file. An unsecured or slippery file 15 grip can lead to error and injury.

#### BRIEF SUMMARY OF THE INVENTION

[0015] Therefore, an innovative endodontic instrument is provided which comprises, among other features: a handle having an elongated base with a threaded projection at a first end, the projection having a recessed distal surface capable of cupping a first terminus portion of 20 an elongated plastic grip attached to an endodontic file; and a cap containing a channel extending through a first end of said cap with a first portion of the channel being threaded for mating with the projection of the elongated base of said endodontic instrument handle, said cap possessing a side, and said cap also having a second end containing an aperture through which an endodontic file can project, the diameter of the aperture being selected to be larger than the 25 diameter of the endodontic file but smaller than the diameter of a plastic grip attached to the endodontic file, said cap further having a recessed interior surface capable of cupping a second terminus portion of an elongated plastic grip attached to an endodontic file. This instrument helps prevent the problems noted above, including awkward access angles and unsecured or slippery file grip that can lead to loss of control of the endodontic file during the root canal 30 procedure and the possibility of swallowing or inhalation of the uncontrolled endodontic file leading to serious injury.

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**BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS**

[0016] FIG. 1 is a side view of an endodontic file in one embodiment of the invention.

[0017] FIG. 2 is a side view of the handle and cap in one embodiment of the invention.

[0018] FIG. 3 is a cross-section, exploded view of the handle, endodontic file, and cap in one embodiment of the invention.

5 [0019] FIG. 4 is a cross-section of the handle, endodontic file, and cap in one embodiment of the invention.

[0020] FIG. 5 is a perspective view of one embodiment of the invention.

**DETAILED DESCRIPTION OF THE INVENTION**

10 [0021] Referring now to Figure 1, an endodontic file 101 is a small, tapered, fluted wire with a tip 102 and to which may be attached an elongated plastic grip 103 with a first terminus portion 104 and a second terminus portion 105. The file 101 is used in preparing and cleaning the root canal of a tooth. In various embodiments, the first and second terminus portions 104, 105 of the elongated plastic grip 103 may have distally curving surfaces and/or partially rounded ends.

[0022] Referring now to Figure 2, the present holder 200 has a handle 201 and a cap 202.

[0023] The handle 201 employs an elongated base 203 having a threaded projection 204 at a first end 205. In various embodiments, the handle 201 has a plurality of longitudinally oriented recessed grooves 211 adjacent to the first end 205 of the elongated base 203 for increasing the handle's grip surface area and for providing rotational control of the instrument when in use. In still other embodiments, the handle has a plurality of transversely oriented recessed grooves 213 on the elongated base 203 for increasing the handle's grip surface area and for reducing longitudinal slippage when in use. Such transversely oriented recessed grooves 213 may be shallower and greater in number than the longitudinally oriented recessed grooves 211.

20 [0024] Preferably, the maximum outer diameter of the cap 202 is substantially the same as the maximum outer diameter of the elongated base 203.

[0025] The cap 202 contains a channel 206 extending through a first end 207 of the cap. The first portion 208 of the channel 206 is threaded (not shown) for mating with the projection 204 of the elongated base 203. The second end 209 of the cap 202 contains an aperture 210 through which an endodontic file 101 can project. In various embodiments, the cap 202 also has a plurality of longitudinally oriented recessed grooves 214 adjacent to the first end 207 of the cap

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202 for increasing the cap's grip surface area and for providing rotational control when in use. In still other embodiments, the cap has a plurality of transversely oriented recessed grooves 215 for increasing the cap's grip surface area and for reducing longitudinal slippage when in use. Such transversely oriented recessed grooves 215 may be shallower and greater in number than the 5 longitudinally oriented recessed grooves 214.

[0026] Referring now to the cross-section of Figure 3, in various embodiments the threaded projection 204 and cap 202 have surfaces uniquely tailored, partially, and/or substantially complimentary to the distally curving surfaces and/or partially rounded ends of the elongated plastic grip 103 attached to an endodontic file 101. Specifically, the projection 205 of 10 the elongated base 204 may have a recessed distal surface 301 capable of cupping a first terminus portion 104 of an elongated plastic grip 103 attached to an endodontic file 101. Likewise, the cap 202 may have a recessed interior surface 302, located within the channel 206, and capable of cupping a second terminus portion 105 of an elongated plastic grip 103 attached to an endodontic file 101.

15 [0027] Referring now to the cross-section of Figure 4, in use, an endodontic file 101 is placed so that it extends through the aperture 210 with the elongated plastic grip 103 that is attached to the endodontic file 101 (at an end 106 opposite to the tip 102) being in the channel 206. (The diameter of the aperture 210 is selected to be larger than the diameter of the endodontic file 101 but smaller than the diameter of the elongated plastic grip 103.) The cap 202 20 is then screwed closer to the first end 205 of the elongated base 203 until the elongated plastic grip 103 is securely retained in the channel 206 between the second end 209 of the cap 202 and the projection 204, as a result of the recessed distal surface of the projection 301 cupping the first terminus portion 104 of the plastic grip 103 and the recessed interior surface 302 of the cap 202 cupping the second terminus portion 105 of the plastic grip 103 through a compression fit 25 achieved from the mating of the elongated base 203 and cap 202.

[0028] As a result of this configuration, including the surfaces 301 and 302 of the threaded projection 204 and cap 202 being uniquely tailored, partially, and/or substantially complimentary to the distally curving surfaces and/or partially rounded ends of the elongated plastic grip attached to an endodontic file, the elongated plastic grip 103 is securely maintained 30 by maximizing surface area contact between parts during the mating of the elongated base 203 and cap 202 and consequent compression fit. Indeed, when so securely maintained, the tip of the

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endodontic file **102** is not capable of being variably positioned within the instrument along the Y axis due to the compression fit.

5 [0029] Referring now to Figure 5, a closer perspective view of the elongated plastic grip **103** within the channel illustrates the manner of fitting and structure within one embodiment of the invention.

10 [0030] In order to facilitate the work of an endodontist, an option to the present invention is, as portrayed in Figure 4, an endodontic file **101** that initially moves away from the centerline of the endodontic file **101** in a first direction shown by the arrow A and then curves back toward and crosses the centerline as the tip **102** of the endodontic file **101** is approached but does not then again cross the centerline.

[0031] Referring back to Figure 2, in order to accommodate such a bent endodontic file **101**, the aperture **210** is extended to the side **216** of the cap **202** and, on such side **216**, enlarged to dimensions sufficient to permit the introduction into the channel **206** of the elongated plastic grip **103**.

15 [0032] The instrument aids the dentist by changing the thumb-and-finger grip to a secure pencil-type grip, which is more suitable for manipulating the endodontic file **101**. And the bent endodontic file **101** permits the dentist to place his or her hand in a more convenient location.

20 [0033] As used herein, the term "substantially" indicates that one skilled in the art would consider the value modified by such terms to be within acceptable limits for the stated value. Also as used herein the term "preferable" or "preferably" means that a specified element or technique is more acceptable than another but not that such specified element or technique is a necessity.

25 [0034] The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes which come within the meaning and range of equivalency of the claims are to be embraced within their scope.

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**CLAIMS**

1. An endodontic instrument, which comprises:
  - a handle having an elongated base with a threaded projection at a first end, the projection having a recessed distal surface capable of cupping a first terminus portion of an elongated plastic grip attached to an endodontic file; and
    - a cap containing a channel extending through a first end of said cap with a first portion of the channel being threaded for mating with the projection of the elongated base of said endodontic instrument handle, said cap possessing a side, and said cap also having a second end containing an aperture through which an endodontic file can project, the diameter of the aperture being selected to be larger than the diameter of the endodontic file but smaller than the diameter of a plastic grip attached to the endodontic file, said cap further having a recessed interior surface capable of cupping a second terminus portion of an elongated plastic grip attached to an endodontic file.
  2. The endodontic instrument as recited in claim 1, wherein:
    - the elongated base has a maximum outer diameter;
    - the cap has a maximum outer diameter; and
    - the maximum outer diameter of said cap is substantially the same as the maximum outer diameter of the elongated base.
  3. The endodontic instrument as recited in claim 1, further comprising:
    - an endodontic file with a tip and also with an elongated plastic grip having first and second terminus portions, said grip attached to said endodontic file at an end opposite to the tip, said endodontic file extending through the aperture in the second end of said cap and the attached plastic grip being contained within the channel of said cap so that the recessed distal surface of the projection cups the first terminus portion of the plastic grip and the recessed interior surface of the cap cups the second terminus portion of the plastic grip through a compression fit achieved from the threaded mating of the elongated base and cap.
  4. The endodontic instrument as recited in claim 3, wherein:
    - the elongated base has a maximum outer diameter;
    - the cap has a maximum outer diameter; and
    - the maximum outer diameter of said cap is substantially the same as the maximum outer diameter of the elongated base.

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5. The endodontic instrument of claim 3, wherein the first and second terminus portions of the elongated plastic grip have distally curving surfaces.
6. The endodontic instrument of claim 3, wherein the first and second terminus portions of the elongated plastic grip have partially rounded ends.
- 5 7. The endodontic instrument of claim 1, wherein the tip of the endodontic file is not capable of being variably positioned within the instrument along the Y axis through a compression fit.
8. The endodontic instrument as recited in claim 1, wherein:  
the aperture in the second end of said cap extends to the side of said cap and, on such side, is  
10 enlarged to dimensions sufficient to permit the introduction in the channel of the plastic grip attached to the endodontic file.
9. The endodontic instrument as recited in claim 8, wherein:  
the elongated base has a maximum outer diameter;  
said cap has a maximum outer diameter; and  
15 the maximum outer diameter of said cap is substantially the same as the maximum outer diameter of the elongated base.
10. The endodontic instrument as recited in claim 1, the handle further having a plurality of longitudinally oriented recessed grooves adjacent to the first end of the elongated base for increasing the handle's surface area.
- 20 11. The endodontic instrument as recited in claim 1, the cap further having a plurality of longitudinally oriented recessed grooves for increasing the cap's surface area.
12. The endodontic instrument as recited in claim 10, the handle further having a plurality of transversely oriented recessed grooves on the elongated base for increasing the handle's surface area, said transversely oriented grooves being shallower and greater in number than the  
25 longitudinally oriented recessed grooves.
13. An endodontic instrument, which comprises:  
a handle having an elongated base with a threaded projection at a first end and a maximum outer diameter, the projection further having a recessed distal surface capable of cupping a first terminus portion of a plastic grip attached to an endodontic file;
- 30 a cap having a maximum outer diameter substantially the same as the maximum outer diameter of the elongated base and containing a channel extending through a first end of said cap

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with a first portion of the channel being threaded for mating with the projection of the elongated base of said endodontic instrument handle, said cap possessing a side, and said cap also having a second end containing an aperture through which an endodontic file can project, the diameter of the aperture being selected to be larger than the diameter of the endodontic file but smaller than

5 the diameter of an elongated plastic handle attached to an endodontic file, the aperture extending to the side of said cap and, on such side, is enlarged to dimensions sufficient to permit the introduction in the channel of an elongated plastic grip attached to an endodontic file, said cap further having a recessed interior surface capable of cupping a first terminus portion of an elongated plastic grip attached to an endodontic file; and

10 an endodontic file with a tip and also with an elongated plastic grip having first and second terminus portions, said grip attached to said endodontic file at an end opposite to the tip, said endodontic file extending through the aperture in the second end of said cap and the attached plastic grip being contained within the channel of said cap so that the recessed distal surface of the projection cups the first terminus portion of the elongated plastic grip and the recessed 15 interior surface of the cap cups the second terminus portion of the elongated plastic grip through a compression fit achieved from the threaded mating of the elongated base and cap.

14. The endodontic instrument as recited in claim 13, the handle further having a plurality of longitudinally oriented recessed grooves adjacent to the first end of the elongated base for increasing the handle's grip surface area and for providing rotational control of the instrument 20 when in use.

15. The endodontic instrument as recited in claim 13, the cap further having a plurality of longitudinally oriented recessed grooves for increasing the cap's grip surface area and for providing rotational control of the instrument when in use.

16. The endodontic instrument as recited in claim 13, the handle further having a plurality of 25 transversely oriented recessed grooves on the elongated base for increasing the handle's grip surface area and for reducing longitudinal slippage, said transversely oriented grooves being shallower and greater in number than the longitudinally oriented recessed grooves.

17. The endodontic instrument of claim 13, wherein the tip of the endodontic file is not capable of being variably positioned within the instrument along the Y axis through a 30 compression fit.

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18. The endodontic instrument of claim 13 wherein the first and second terminus portions of the elongated plastic grip have distally curving surfaces.
19. The endodontic instrument of claim 13 wherein the first and second terminus portions of the elongated grip have partially rounded ends.
- 5 20. An endodontic instrument, which comprises:
  - a handle having an elongated base with a threaded projection at a first end and a maximum outer diameter, the handle further having a plurality of longitudinally oriented recessed grooves adjacent to the first end of the elongated base for increasing grip surface area on the instrument, the handle further having a plurality of transversely oriented recessed grooves
  - 10 on the elongated base for increasing grip surface on the elongated base, said transversely oriented grooves being shallower and greater in number than the longitudinally oriented recessed grooves, and the projection having a recessed distal surface capable of cupping a first terminus portion of a plastic grip attached to an endodontic file;
  - a cap having a maximum outer diameter substantially the same as the maximum outer
  - 15 diameter of the elongated base and containing a channel extending through a first end of said cap with a first portion of the channel being threaded for mating with the projection of the elongated base of said endodontic instrument handle, said cap possessing a side, and said cap also having a second end containing an aperture through which an endodontic file can project, the diameter of the aperture being selected to be larger than the diameter of the endodontic file but smaller
  - 20 than the diameter of an elongated plastic grip attached to the endodontic file, the aperture extending to the side of said cap and, on such side, is enlarged to dimensions sufficient to permit the introduction in the channel of an elongated plastic grip attached to an endodontic file, said cap further having a recessed interior surface capable of cupping a second terminus portion of an elongated plastic grip attached to an endodontic file, said cap further having a plurality of
  - 25 longitudinally oriented recessed grooves for increasing the cap's grip surface area and for providing rotational control of the instrument when in use, said cap further having a plurality of transversely oriented recess grooves for increasing the caps grip surface area and for reducing longitudinal slippage when in use, said transversely oriented grooves being shallower and greater in number than the longitudinally oriented recessed grooves; and
  - 30 an endodontic file with a tip and also with an elongated plastic grip having first and second terminus portions, said grip attached to said endodontic file at an end opposite to the tip,

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said endodontic file extending through the aperture in the second end of said cap and the attached plastic grip being contained within the channel of said cap so that the recessed distal surface of the projection cups the first terminus portion of the plastic grip and the recessed interior surface of the cap cups the second terminus portion of the plastic grip through a compression fit achieved  
5 from the threaded mating of the elongated base and cap.

21. The endodontic instrument of claim 20, wherein the tip of the endodontic file is not capable of being variably positioned within the instrument along the Y axis through a compression fit.

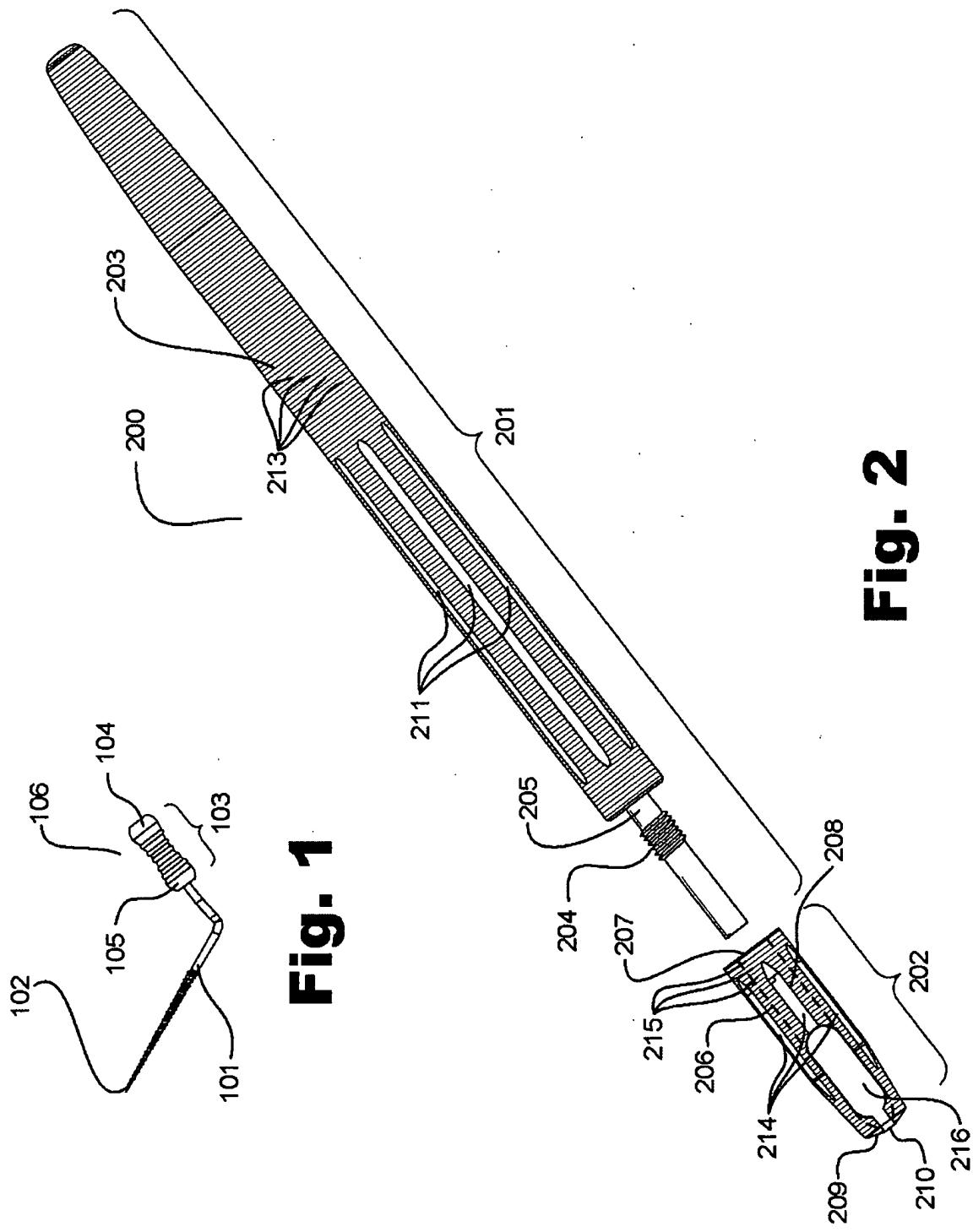
22. The endodontic instrument of claim 20 wherein the first and second terminus  
10 portions of the elongated plastic grip have distally curving surfaces.

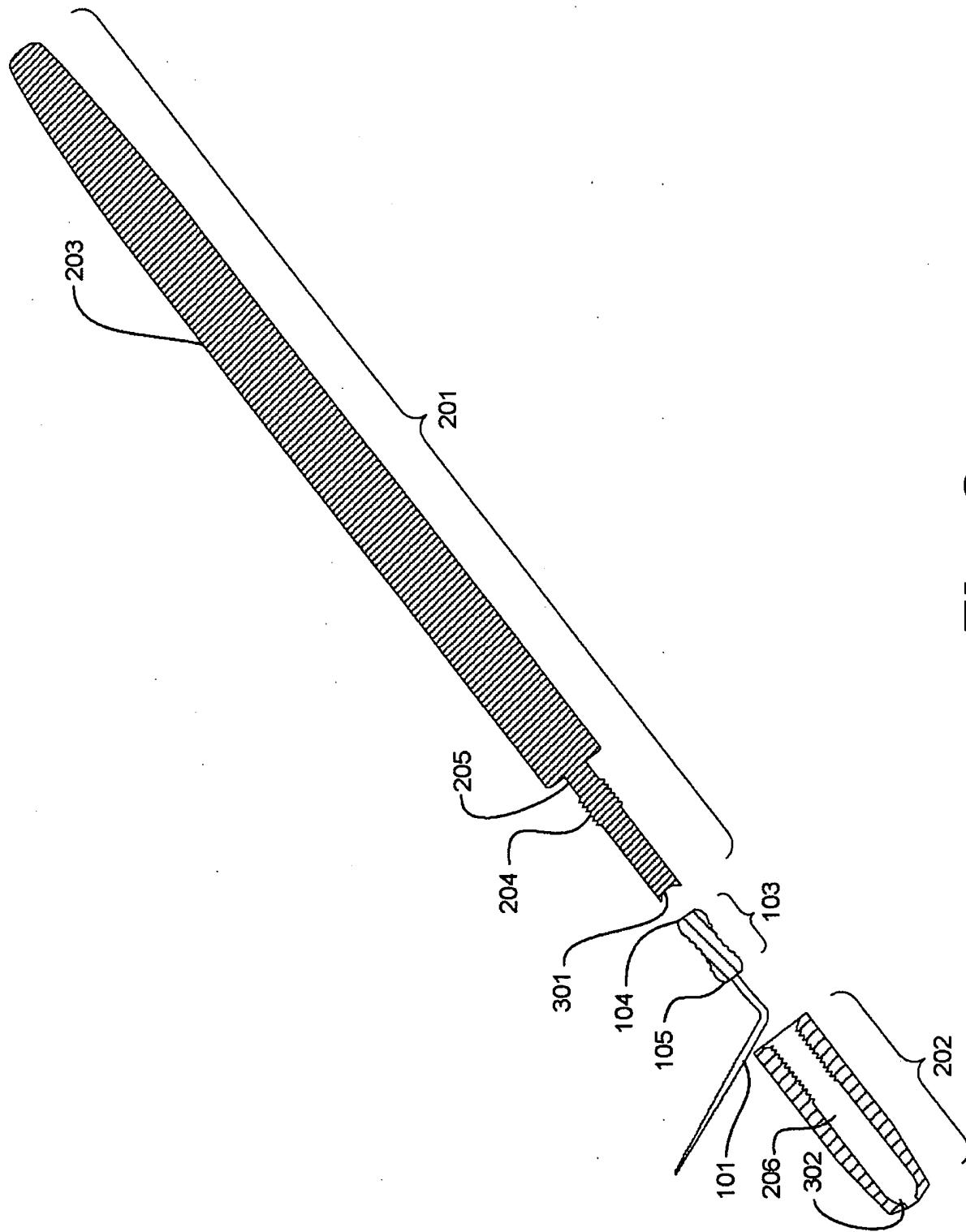
23. The endodontic instrument of claim 20 wherein the first and second terminus portions of the elongated grip have partially rounded ends.

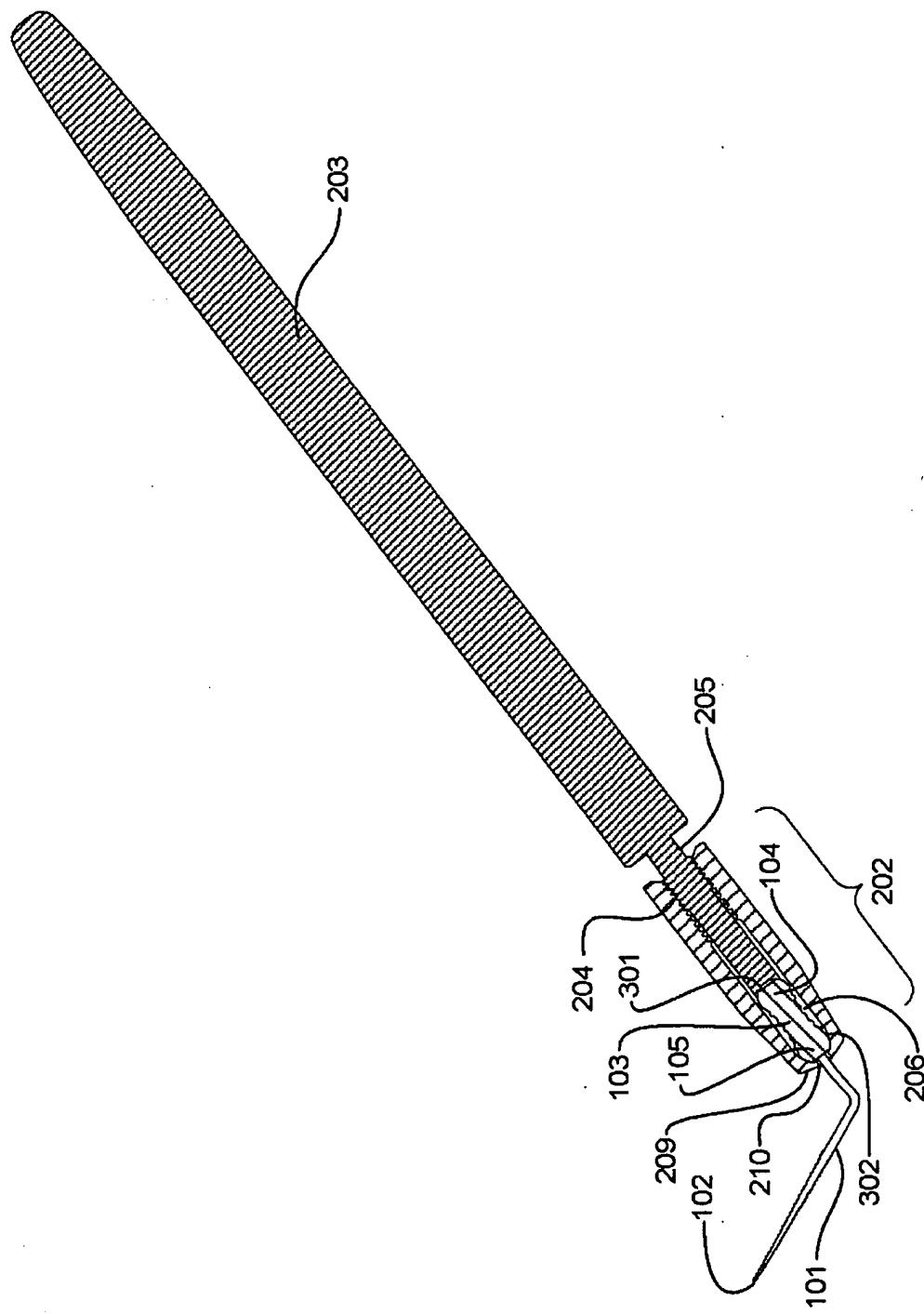
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**ABSTRACT**

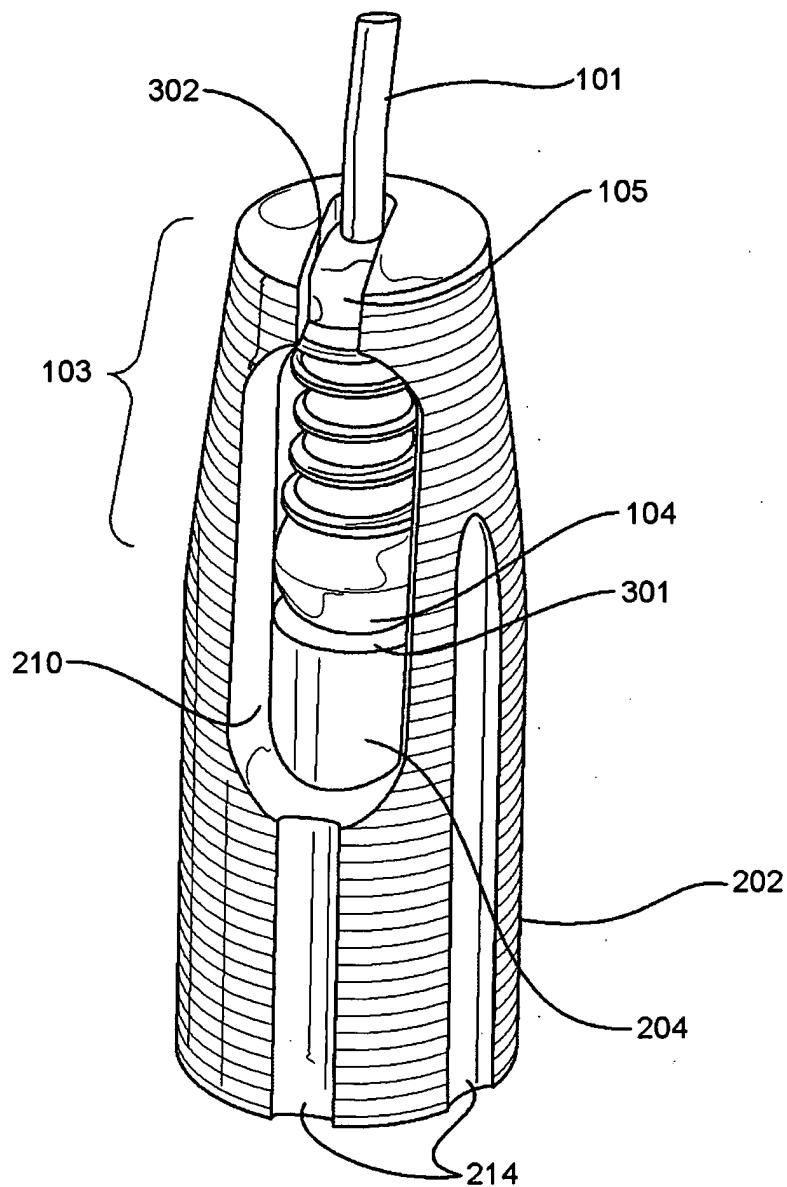
The invention is an endodontic instrument which comprises, among other features: a handle having an elongated base with a threaded projection at a first end, the projection having a recessed distal surface capable of cupping a first terminus portion of an elongated plastic grip attached to an endodontic file; and a cap containing a channel extending through a first end of said cap with a first portion of the channel being threaded for mating with the projection of the elongated base of said endodontic instrument handle, said cap possessing a side, and said cap also having a second end containing an aperture through which an endodontic file can project, the diameter of the aperture being selected to be larger than the diameter of the endodontic file but smaller than the diameter of a plastic grip attached to the endodontic file, said cap further having a recessed interior surface capable of cupping a second terminus portion of an elongated plastic grip attached to an endodontic file. This instrument helps prevent the problems noted above, including awkward access angles and unsecured or slippery file grip that can lead to that can lead to loss of control of the endodontic file during the root canal procedure and the possibility of swallowing or inhalation of the uncontrolled endodontic file leading to serious injury.







**Fig. 4**



**Fig. 5**

Doc Code: Oath

Document Description: Oath or declaration filed

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**DECLARATION FOR UTILITY OR  
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Declaration  
Submitted  
With Initial  
Filing

OR

Declaration  
Submitted After Initial  
Filing (surcharge  
(37 CFR 1.16(f))  
required)

Attorney Docket Number	LAR50-001
First Named Inventor	Steven Larsen
<b>COMPLETE IF KNOWN</b>	
Application Number	
Filing Date	
Art Unit	
Examiner Name	

I hereby declare that: (1) Each inventor's residence, mailing address, and citizenship are as stated below next to their name; and (2) I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

**Endodontic Instrument**

(Title of the Invention)

the application of which

 is attached hereto

OR

 was filed on (MM/DD/YYYY) \_\_\_\_\_ as United States Application Number or PCT International

Application Number \_\_\_\_\_ and was amended on (MM/DD/YYYY) \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

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[Page 1 of 3]

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I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
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Additional foreign application number(s) are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

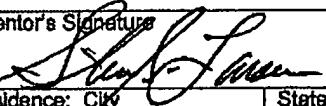
[Page 2 of 3]

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<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>					
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])		Family Name or Surname			
Steven		Larsen			
Inventor's Signature 		Date 4-10-12			
Residence: City No. Logan.	State Utah	Country USA	Citizenship USA		
Mailing Address 150 East 200 North, Ste. G					
City Logan	State Utah	Zip 84321	Country USA		
<input type="checkbox"/> Additional inventors or a legal representative are being named on the _____		supplemental sheet(s) PTO/SB/02A or 02LR attached hereto			

[Page 3 of 3]

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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PTO/SB/61 (01-09)

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OR  
REVOCATION OF POWER OF ATTORNEY  
WITH A NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	
Filing Date	
First Named Inventor	Steven Larsen
Title	Endodontic Instrument
Art Unit	
Examiner Name	
Attorney Docket Number	LAR50-001

I hereby revoke all previous powers of attorney given in the above-identified application.

 A Power of Attorney is submitted herewith.

OR

 I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

62733

OR

 I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

 The address associated with the above-mentioned Customer Number.

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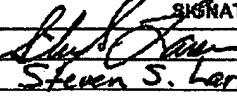
Address		
City	State	Zip
Country		
Telephone	Email	

I am the:

 Applicant/Inventor.

OR

 Assignee of record of the entire interest. See 37 CFR 3.71.  
 Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on \_\_\_\_\_**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	4-10-12
Name	Steven S. Larsen	Telephone	435-752-0144
Title and Company			

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

 \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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